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APPLICATION NO. **FILING DATE** FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 20066-05 09/101,723 08/13/98 DARVISH Ν **EXAMINER** QM12/0125 WILLIAM H DIPPERT LAYNO.C **ART UNIT** PAPER NUMBER COWAN LIEBOWITZ & LATMAN 1133 AVENUE OF THE AMERICAS #14 3762 NEW YORK NY 10036-6799 **DATE MAILED:**

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

01/25/01

	Application No.	Applicant(s)	11.45. 1	
Office Action Summary	09/101,723	BEN	HAIM et	al .
	Examiner	1 Alun	Group Art Unit	
—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—				
Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIREMONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.				
 Extensions of time may be available under the provisions of 37 CFR 1.15 from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, such period shall, by default, ex Failure to reply within the set or extended period for reply will, by statute. 	within the statutory mir pire SIX (6) MONTHS f	nimum of thirty (30) rom the mailing dat	days will be considere	ed timely.
Status	//			
Responsive to communication(s) filed on	7/00			
☐ This action is FINAL .				
☐ Since this application is in condition for allowance except fo accordance with the practice under <i>Ex parte Quayle</i> , 1935 (the merits is clos	sed in
Disposition of Claims /				
© Claim(s)		is/are	pending in the app	lication.
Of the above claim(s)		is/are	withdrawn from co	
(Claim(s) 16, 17, 24-27, 46 And 52-57 is/are allowed				
\square Claim(s) $1-3$, 10 , 13 , 14 , $18-21$, 30 , 31 , 35 , 37 , 38 , 44 , 47 is are rejected.				
Claim(s) 4-9, 11, 12, 15, 22, 23, 28, 29, 32	34,36,39-4	3, 45- 48,50 island	objected to.	
☐ Claim(s)————————————————————————————————————			bject to restriction	or election
Application Papers		require	ement.	
☐ See the attached Notice of Draftsperson's Patent Drawing I	Review, PTO-948.			
☐ The proposed drawing correction, filed on is ☐ approved ☐ disapproved.				
☐ The drawing(s) filed on is/are objected to by the Examiner.				
The specification is objected to by the Examiner.				
The oath or declaration is objected to by the Examiner.				
Priority under 35 U.S.C. § 119 (a)-(d)				
 ✓ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 11 9(a)-(d). ✓ All □ Some* □ None of the CERTIFIED copies of the priority documents have been ☑ received. 				
☐ received in Application No. (Series Code/Serial Number)				
☐ received in this national stage application from the Interr	ational Bureau (PC	T Rule 1 7.2(a)).		
*Certified copies not received:	777			
Attachment(s)	i de la companya della companya della companya de la companya della companya dell			
☑ Information Disclosure Statement(s), PTO-1449, Paper No(s)	☐ Interview Sum	mary, PTO-413	
☐ Notice of Reference(s) Cited, PTO-892		☐ Notice of Infor	mal Patent Applica	tion, PTO-152
□ Notice of Draftsperson's Patent Drawing Review, PTO-948		□ Other		
Office Action Summany				

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97) Application/Control Number: 09/101,723

Art Unit: 3762

DETAILED ACTION

1. Claims 1-60 are active.

Information Disclosure Statement

2. Acknowledgment is made of applicant's Second Supplemental Information Disclosure Statement (PTO-1449) which was received by the Office on July 7, 2000. This document has been made of record in the file as Paper No.11.

Drawings

3. Applicant's formal drawings were received by the Office on July 21, 2000 and have been made of record in the file as Paper No.12. These drawings have been approved by the Examiner.

Withdrawal From Issue under 37 CFR 1.313(a)

4. Having reviewed the applicant's recently submitted prior art, the Examiner is withdrawing the previous allowability of claims 1-3, 10, 13, 14, 18-21, 30, 31, 35, 37, 38, 44, 47, 49, 51, and 58 under 37 CFR 1.313(b)(3) in view of the Prystowski et al '922 patent which appears to read upon the device features and method steps of these claims thus making them unpatentable..

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Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-3, 10, 13, 14, 18-21, 30, 31, 35, 37, 38, 44, 47, 49, 51, and 58 are rejected under 35 U.S.C. 102(b) as being anticipated by Prystowsky et al '922 (Applicant's prior art).

The Prystowsky et al '922, cited by the applicant as prior art, describes a method of inhibiting cardiac arrhythmias using a stimulator/pacemaker 60 (Fig.8) having a plurality of electrodes located at various points on a patient's heart 52 (col.6, lines 16-28). Each electrode is capable of outputting a non-excitatory electrical pulse S_c during a refractory period between heartbeats (Fig.1). These electrical pulses (localized electric fields) occur during the refractory period between heart beats (see Fig.1) and inhibit heart beat propagation, particularly at areas between the electrodes (i.e. locations denoted by the number 74 in Fig.1).

In regard to claims 3, 21, and 31, applicant's attention is directed to Figs.3 and 5 which show that the non-excitatory electrical pulses S_c appear to be bipolar, inherently generating both an alternating voltage and subsequent current.

In regard to claims 10 and 35, by inhibiting the onset of premature arrhythmic heart beats 40 (Fig.6), the Prystowsky et al device slows the heart rate of the patient.

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In regard to claims 13 and 58, applicant's attention is directed to epicardial "sub-portion" locations 74 in Fig.1.

In regard to claims 14 and 49, the intervals between ECG beats are timed and used to calculate the estimated current for non-excitatory pulse S_c as shown in Fig.1. Note that S_c occurs at t_c which is 20 milliseconds before the next beat t_2 .

In regard to claim 37, applicant's attention is directed to electrodes 62 and 64 of Fig.8 (col.5, lines 18-22).

In regard to claim 38, applicant's attention is directed to col.5, lines 22-24.

In regard to claim 51, the stimulator **60** is a Medtronic Symbiosis series programmable pacemaker which would inherently have memory for storing programmed data as well as a processor/controlling means for performing the device's pacing functions.

Allowable Subject Matter

- 7. Claims 4-9, 11, 12, 15, 22, 23, 28, 29, 32-34, 36, 39-43, 45, 48, 50, 59, and 60 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. Claims 16, 17, 24-27, 46, and 52-57 remain allowed.

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Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Carl H. Layno whose telephone number is (703) 308-3694. The examiner

can normally be reached on M-F from 8:30 AM to 5:00 PM. A voice mail message may be left if

desired.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Angela Sykes, can be reached on (703) 308-5181. The current fax number for this Group is (703)

308-3590 or (703) 308-3588.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to Patent Analysts Chantae Dessau whose telephone number is (703) 605-1237

or Tiffany Tabb whose telephone number is (703) 605-1238.

Carl H. Layno

Patent Examine

CHL ·

12/15/00